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(FILE 'HOME' ENTERED AT 09:17:23 ON 11 JUL 2005)

FILE 'HCAPLUS' ENTERED AT 09:17:45 ON 11 JUL 2005 L1 1 (WO2000-CA00773# OR US99-140988#)/AP,PRN

FILE 'REGISTRY' ENTERED AT 09:18:44 ON 11 JUL 2005

FILE 'HCAPLUS' ENTERED AT 09:18:45 ON 11 JUL 2005 L2 TRA L1 1- RN : 11 TERMS

FILE 'REGISTRY' ENTERED AT 09:18:45 ON 11 JUL 2005 L3 11 SEA L2

FILE 'WPIX' ENTERED AT 09:18:48 ON 11 JUL 2005 L4 1 (WO2000-CA00773# OR US99-140988#)/AP,PRN

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FILE 'HCAPLUS' ENTERED AT 09:19:05 ON 11 JUL 2005

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FILE COVERS 1907 - 11 Jul 2005 VOL 143 ISS 3 FILE LAST UPDATED: 10 Jul 2005 (20050710/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d all 11 tot /

L1 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:31526 HCAPLUS

DN 134:102558

ED Entered STN: 12 Jan 2001

TI Peptide conjugate-based lipopeptide detergents for the stabilization of membrane proteins and interactions with biological membranes

IN Prive, Gil

PA University Health Network, Can.

SO PCT Int. Appl., 29 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07K001-00

CC 46-3 (Surface Active Agents and Detergents)

Section cross-reference(s): 6, 9

FAN.CNT 1

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		<b>-</b>						
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	WO 2001002425	A3	20010712					
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             LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
             SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
         YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

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     EP 1196434
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             IE, SI, LT, LV, FI, RO
PRAI US 1999-140988P
                         P
                                19990629
     WO 2000-CA773
                                20000629
                                          <--
CLASS
PATENT NO.
               CLASS PATENT FAMILY CLASSIFICATION CODES
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WO 2001002425
                ICM
                        C07K001-00
WO 2001002425 ECLA C07K014/00B; C07K014/705
    The present invention provides a novel class of detergents referred to
     herein as lipopeptide detergents. Lipopeptide detergents comprise an
     amphipathic \alpha-helical peptide having a hydrophobic or neutral face
     and a hydrophilic face. To each end of this peptide is covalently linked
     an aliphatic hydrocarbon tail, these aliphatic tails being linked thereto such
     that they associate with the hydrophobic or neutral face of the peptide.
     Lipopeptide detergents can advantageously be used to stabilize membrane
     proteins in the absence of a phospholipid bilayer in a manner that
     preserves the native conformation and permits the subsequent crystallization
ST
     lipopeptide detergent peptide conjugate membrane protein biomembrane;
     aliph hydrocarbon peptide conjugate lipopeptide detergent
     Peptides, uses
IT
     RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PRP
     (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP
     (Preparation); USES (Uses)
        (N-Ac; peptide conjugate-based lipopeptide detergents for stabilization
        of membrane proteins and interactions with biol. membranes)
ΙT
     Peptides, uses
     RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PRP
     (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP
     (Preparation); USES (Uses)
        (amides; peptide conjugate-based lipopeptide detergents for
        stabilization of membrane proteins and interactions with biol.
        membranes)
ΙT
     Membrane, biological
        (bilayer; peptide conjugate-based lipopeptide detergents for
        stabilization of membrane proteins and interactions with biol.
        membranes)
IT
    Hydrocarbons, uses
     RL: NUU (Other use, unclassified); PRP (Properties); SPN (Synthetic
     preparation); PREP (Preparation); USES (Uses)
        (conjugated, with peptides; peptide conjugate-based lipopeptide
        detergents for stabilization of membrane proteins and interactions with
        biol. membranes)
ΙŢ
     Fatty acids, uses
     RL: NUU (Other use, unclassified); PRP (Properties); SPN (Synthetic
     preparation); PREP (Preparation); USES (Uses)
        (conjugates, with peptides; peptide conjugate-based lipopeptide
        detergents for stabilization of membrane proteins and interactions with
        biol. membranes)
IT
     Peptides, uses
     RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PRP
     (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP
     (Preparation); USES (Uses)
        (conjugates; peptide conjugate-based lipopeptide detergents for
        stabilization of membrane proteins and interactions with biol.
```

```
membranes)
IT
    Polymer chains
        (length, of aliphatic hydrocarbon; peptide conjugate-based lipopeptide
        detergents for stabilization of membrane proteins and interactions with
       biol. membranes)
TТ
     Proteins, specific or class
     RL: PEP (Physical, engineering or chemical process); PRP (Properties);
     PROC (Process)
        (membrane; peptide conjugate-based lipopeptide detergents for
        stabilization of membrane proteins and interactions with biol.
       membranes)
TT
    Detergents
    \alpha-Helix
        (peptide conjugate-based lipopeptide detergents for stabilization of
       membrane proteins and interactions with biol. membranes)
IT
    Lipopeptides
     RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PRP
     (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP
     (Preparation); USES (Uses)
        (peptide conjugate-based lipopeptide detergents for stabilization of
       membrane proteins and interactions with biol. membranes)
ΙT
    Phosphatidylcholines, processes
     Phospholipids, processes
    RL: PEP (Physical, engineering or chemical process); PROC (Process)
        (peptide conjugate-based lipopeptide detergents for stabilization of
       membrane proteins and interactions with biol. membranes)
TT
    Bacteriorhodopsins
    RL: PEP (Physical, engineering or chemical process); PRP (Properties);
     PROC (Process)
        (peptide conjugate-based lipopeptide detergents for stabilization of
       membrane proteins and interactions with biol. membranes)
    Crystal growth
        (use of lipopeptide detergents for membrane protein crystallization; peptide
       conjugate-based lipopeptide detergents for stabilization of membrane
       proteins and interactions with biol. membranes)
    318957-85-6D, conjugates with aliphatic hydrocarbons
TТ
    RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PRP
     (Properties); BIOL (Biological study); USES (Uses)
        (peptide conjugate-based lipopeptide detergents for stabilization of
       membrane proteins and interactions with biol. membranes)
IT
     57-10-3DP, Hexadecanoic acid, peptide conjugates, uses 57-11-4DP,
    Octadecanoic acid, peptide conjugates, uses 112-85-6DP, Docosanoic acid,
    peptide conjugates 143-07-7DP, Dodecanoic acid, peptide conjugates, uses
     334-48-5DP, Decanoic acid, peptide conjugates 506-30-9DP, Eicosanoic
    acid, peptide conjugates 506-48-9DP, Octacosanoic acid, peptide
                544-63-8DP, Tetradecanoic acid, peptide conjugates, uses
     conjugates
     557-59-5DP, Tetracosanoic acid, peptide conjugates
                                                         318957-87-8DP,
    conjugates with fatty acids
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    preparation); PREP (Preparation); USES (Uses)
        (peptide conjugate-based lipopeptide detergents for stabilization of
       membrane proteins and interactions with biol. membranes)
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#### => b reg

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STRUCTURE FILE UPDATES: 10 JUL 2005 HIGHEST RN 854370-36-8 DICTIONARY FILE UPDATES: 10 JUL 2005 HIGHEST RN 854370-36-8

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* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,
 * effective March 20, 2005. A new display format, IDERL, is now
 st available and contains the CA role and document type information. st
****************
Crossover limits have been increased. See HELP CROSSOVER for details.
Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html
=> d sqide 13 tot
          ANSWER 1 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
L3
RN
          318957-87-8 REGISTRY
          L-Alaninamide, N-acetyl-L-alanyl-L-ornithyl-L-alanyl-L-α-glutamyl-L-
          \verb| alanyl-L-alanyl-L-aysyl-L-alanyl-L-aysyl-
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          INDEX NAME)
FS
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                                Orn-24
uncommon
______
                  1 АХАЕААЕКАА КҮААЕААЕКА АКАХА
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
MF
       C107 H180 N32 O35
SR
          CA
LC
       STN Files: CA, CAPLUS
DT.CA CAplus document type: Patent
RLD.P Roles for non-specific derivatives from patents: PREP (Preparation);
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Absolute stereochemistry.

PRP (Properties); USES (Uses)

PAGE 1-A

PAGE 1-B

PAGE 1-C

PAGE 1-D

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L3 ANSWER 2 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
- RN 318957-85-6 REGISTRY
- CN L-Alanine, L-alanyl-L-ornithyl-L-alanyl-L- $\alpha$ -glutamyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-tyrosyl-L-alan
- FS PROTEIN SEQUENCE; STEREOSEARCH

SQL 25

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type	location			description							
uncommon	Orn-2	-	_								
uncommon	Orn-24	-	-								

#### SEQ 1 AXAEAAEKAA KYAAEAAEKA AKAXA

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*
MF C105 H177 N31 O35

CA sr

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Patent

RLD.P Roles for non-specific derivatives from patents: BIOL (Biological

study); PRP (Properties); USES (Uses)

Absolute stereochemistry.

$$H_{2N}$$
 $M_{e}$ 
 $H_{2N}$ 
 $H_{2N}$ 
 $M_{e}$ 
 $H_{2N}$ 
 $H_{2N}$ 
 $M_{e}$ 
 $H_{2N}$ 
 $H_{2$ 

PAGE 1-B

Search done by Noble Jarrell .

PAGE 1-C

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L3 ANSWER 3 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
- RN 557-59-5 REGISTRY
- CN Tetracosanoic acid (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN FL 88

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FL 88 (fatty acid)
CN
    L 88
CN
    L 88 (fatty acid)
CN
CN
    Lignoceric acid
     n-Tetracosanoic acid
CN
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                 AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
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       CSCHEM, DDFU, DETHERM*, DRUGU, EMBASE, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, PROMT, TOXCENTER,
       USPAT2, USPATFULL
         (*File contains numerically searchable property data)
     Other Sources: EINECS**, NDSL**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Dissertation; Journal; Patent;
       Preprint; Report
       Roles from patents: ANST (Analytical study); BIOL (Biological study);
RL.P
       FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
       (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
       (Reactant or reagent); USES (Uses); NORL (No role in record)
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       (Reactant or reagent); USES (Uses)
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(Reactant or reagent); USES (Uses); NORL (No role in record)
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        (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
       (Reactant or reagent); USES (Uses)
HO_2C^-(CH_2)_{22}^-Me
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
            3727 REFERENCES IN FILE CA (1907 TO DATE)
               93 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
            3735 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               26 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
     ANSWER 4 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
     544-63-8 REGISTRY
RN
     Tetradecanoic acid (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
    Myristic acid (8CI)
OTHER NAMES:
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CN
     Edenor C 14
CN
     Emery 655
CN
     Hystrene 9014
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     n-Tetradecan-1-oic acid
     n-Tetradecanoic acid
CN
     n-Tetradecoic acid
CN
CN
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     NAA 142
CN
     Neo-Fat 14
CN
     NSC 5028
CN
     Philacid 1400
CN
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Prifac 2942

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LC
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       BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,
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       DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2,
       GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*,
       MSDS-OHS, NAPRALERT, NIOSHTIC, PATDPASPC, PDLCOM*, PIRA, PROMT, RTECS*,
       SPECINFO, TOXCENTER, TULSA, USPAT2, USPATFULL, VTB
         (*File contains numerically searchable property data)
     Other Sources: DSL**, EINECS**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA Caplus document type: Conference; Dissertation; Journal; Patent;
       Preprint; Report
       Roles from patents: ANST (Analytical study); BIOL (Biological study);
RL.P
       FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
       (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
       (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
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(Reactant or reagent); USES (Uses); NORL (No role in record)
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       study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU
       (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
       (Reactant or reagent); USES (Uses)
HO_2C^-(CH_2)_{12}^-Me
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
           19208 REFERENCES IN FILE CA (1907 TO DATE)
             786 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
           19246 REFERENCES IN FILE CAPLUS (1907 TO DATE)
              13 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
     ANSWER 5 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
L3
     506-48-9 REGISTRY
RN
     Octacosanoic acid (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)
CN
OTHER NAMES:
     HW-SW
CN
CN
     Licowax S
CN
     Montanic acid
CN
     n-Octacosanoic acid
     NSC 407311
FS
     3D CONCORD
MF
     C28 H56 O2
CI
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     STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA,
LC
       CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM, DETHERM*, EMBASE,
       HODOC*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, NAPRALERT, TOXCENTER,
       USPAT2, USPATFULL
         (*File contains numerically searchable property data)
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                      EINECS**
         (**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Journal; Patent; Report
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RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation);
PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES
(Uses); NORL (No role in record)
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- RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); USES (Uses)
- RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
- RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); USES (Uses)

 $HO_2C^-$  (CH<sub>2</sub>)<sub>26</sub>-Me

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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830 REFERENCES IN FILE CA (1907 TO DATE)
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- 154 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
- 830 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- 18 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
L3 ANSWER 6 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
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- RN 506-30-9 REGISTRY
- CN Eicosanoic acid (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

- CN Arachic acid
- CN Arachidic acid
- CN Icosanoic acid
- CN n-Eicosanoic acid
- CN NSC 93983
- FS 3D CONCORD
- MF C20 H40 O2
- CI COM
- LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS,
  BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN,
  CSCHEM, DDFU, DETHERM\*, DIPPR\*, DRUGU, EMBASE, HODOC\*, IFICDB, IFIPAT,
  IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM\*,
  PIRA, PROMT, RTECS\*, SPECINFO, TOXCENTER, TULSA, USPAT2, USPATFULL, VTB
  (\*File contains numerically searchable property data)
  Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)

- DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Preprint; Report
- RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
- RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
- RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
- RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

 $HO_2C^-(CH_2)_{18}^-Me$ 

a\_11 , . . .

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
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9138 REFERENCES IN FILE CA (1907 TO DATE)
229 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
9150 REFERENCES IN FILE CAPLUS (1907 TO DATE)
92 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 7 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
RN 334-48-5 REGISTRY
CN Decanoic acid (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1-Nonanecarboxylic acid
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CN Capric acid
CN Caprinic acid
CN Caprynic acid
CN Decoic acid
CN Decylic acid

CN Emery 659 CN Lunac 10-95 CN Lunac 10-98

CN n-Capric acid
CN n-Decanoic acid
CN n-Decoic acid
CN n-Decylic acid

CN NAA 102 CN NSC 5025

CN Prifac 2906

CN Prifac 296 FS 3D CONCORD

MF C10 H20 O2

CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM\*, DIOGENES, DIPPR\*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN\*, HODOC\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM\*, PIRA, PROMT, RTECS\*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VETU, VTB (\*File contains numerically searchable property data)

Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)

DT.CA CAplus document type: Conference; Dissertation; Journal; Patent;
Preprint; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)  $HO_2C^-$  ( $CH_2$ ) 8-Me

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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9238 REFERENCES IN FILE CA (1907 TO DATE)
             788 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
             9251 REFERENCES IN FILE CAPLUS (1907 TO DATE)
              12 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
     ANSWER 8 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
L3
     143-07-7 REGISTRY
RN
    Dodecanoic acid (9CI) (CA INDEX NAME)
CN
OTHER CA INDEX NAMES:
    Lauric acid (8CI)
OTHER NAMES:
     1-Undecanecarboxylic acid
     ABL
CN
    Aliphat No. 4
CN
CN
     Dodecylic acid
     Edenor C 1298-100
CN
CN
     Emery 651
CN
     Hystrene 9512
     Kortacid 1299
CN
CN
    Laurostearic acid
CN
    Lunac L 70
CN
    Lunac L 98
     n-Dodecanoic acid
CN
CN
    NAA 122
CN
    NAA 312
     Neo-Fat 12
     Neo-Fat 12-43
CN
CN
     Nissan NAA 122
CN
     NSC 5026
     Philacid 1200
CN
CN
     Prifac 2920
CN
     Univol U 314
CN
     Vulvic acid
FS
     3D CONCORD
DR
     7632-48-6, 8000-62-2, 8045-27-0, 203714-07-2
MF
     C12 H24 O2
CI
LC
                 AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS,
       BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2,
       GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*,
       MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO,
       SYNTHLINE, TOXCENTER, TULSA, USPAT7, USPATFULL, VETU
         (*File contains numerically searchable property data)
     Other Sources: DSL**, EINECS**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent;
       Preprint; Report
       Roles from patents: ANST (Analytical study); BIOL (Biological study);
RL.P
       FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
       (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
       (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
       study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC
       (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);
       PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
       study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
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(Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
       (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
       study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU
       (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
       (Reactant or reagent); USES (Uses)
HO_2C^-(CH_2)_{10}^-Me
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
           16322 REFERENCES IN FILE CA (1907 TO DATE)
            1353 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
           16350 REFERENCES IN FILE CAPLUS (1907 TO DATE)
              11 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
     ANSWER 9 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
     112-85-6 REGISTRY
RN
CN
     Docosanoic acid (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
    1-Docosanoic acid
CN
     B 95
CN
     B 95 (acid)
CN
CN
     Behenic acid
CN
     Edenor C 22-85R
     EXL 5
CN
     Glycon B 70
CN
    Hydrofol 2022-55
CN
     Hydrofol Acid 560
     n-Docosanoic acid
CN
     NAA 222S
CN
     NAA 22S
CN
    NSC 32364
CN
     Prifac 2987
CN
     3D CONCORD
FS
MF
     C22 H44 O2
CI
                 AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
LC
     STN Files:
       BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST,
       CIN, CSCHEM, DDFU, DETHERM*, DRUGU, EMBASE, GMELIN*, HODOC*, HSDB*,
       IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, PIRA,
       PROMT, SPECINFO, TOXCENTER, USPAT2, USPATFULL
         (*File contains numerically searchable property data)
     Other Sources: DSL**, EINECS**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Dissertation; Journal; Patent;
       Preprint; Report
       Roles from patents: ANST (Analytical study); BIOL (Biological study);
RL.P
       FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
       (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
       (Reactant or reagent); USES (Uses); NORL (No role in record)
      Roles for non-specific derivatives from patents: BIOL (Biological
       study); PREP (Preparation); PROC (Process); PRP (Properties); RACT
       (Reactant or reagent); USES (Uses)
       Roles from non-patents: ANST (Analytical study); BIOL (Biological
RL.NP
       study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
       (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
```

study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation);

(Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical

PROC (Process); PRP (Properties); USES (Uses)

 $HO_2C^-(CH_2)_{20}^-Me$ 

CN

CN

Lunac S 90 Lunac S 90KC

Lunac S 98

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
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7130 REFERENCES IN FILE CA (1907 TO DATE)

445 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

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7142 REFERENCES IN FILE CAPLUS (1907 TO DATE)
              93 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
     ANSWER 10 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
L3
     57-11-4 REGISTRY
RN
CN
     Octadecanoic acid (9CI)
                               (CA INDEX NAME)
OTHER NAMES:
     1-Heptadecanecarboxylic acid
CN
CN
     17FA
     400JB9103-88
CN
     A 1760
CN
     Adeka Fatty Acid SA 910
CN
     Barolub FTA
CN
     Century 1210
Century 1220
Century 1230
CN
CN
CN
     Century 1240
CN
     Edenor C 18/98
CN
CN
     Edenor C18
CN
     Edenor HT-JG 60
     Edenor ST 1
CN
     Edenor ST 20
CN
CN
     Emersol 120
CN
     Emersol 153NF
CN
     Emersol 6349
CN
     F 3
     F 3 (lubricant)
CN
     FA 1655
CN
CN
     G 270
CN
     Humko Industrene R
     Hydrofol Acid 150
CN
     Hydrofol Acid 1895
CN
     Hystrene 5016
CN
CN
     Hystrene 80
     Hystrene 9718
CN
CN
     Hystrene 9718NF
CN
     Hystrene 9718NFFG
     Hystrene S 97
CN
     Hystrene T 70
CN
     Industrene 5016K
CN
     Industrene 8718
CN
CN
     Industrene 9018
CN
     Industrene R
CN
     Kam 1000
     Kam 2000
CN
CN
     Kam 3000
     Kortacid 1895
CN
     Loxiol G 20
CN
CN
     Lunac 30
CN
     Lunac S 20
CN
     Lunac S 30
CN
     Lunac S 40
CN
     Lunac S 50
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Lunac YA
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
     DISPLAY
FS
     3D CONCORD
     8013-28-3, 8023-06-1, 8037-40-9, 8037-83-0, 8039-51-8, 8039-52-9,
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     197923-10-7, 294203-07-9
MF
     C18 H36 O2
     COM
CI
                  ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS,
LC
     STN Files:
       BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB,
       DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2,
       ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB,
       IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PATDPASPC, PDLCOM*,
       PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, USAN, USPAT2, USPATFULL, VETU, VTB
         (*File contains numerically searchable property data)
     Other Sources: DSL**, EINECS**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Book; Conference; Dissertation; Journal; Patent;
       Preprint; Report
RL.P
       Roles from patents: ANST (Analytical study); BIOL (Biological study);
       FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
       (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
       (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC
       (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);
       PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
       study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
       (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
       (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
       study); BIOL (Biological study); CMBI (Combinatorial study); FORM
       (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence);
       PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
       reagent); USES (Uses)
HO_2C^-(CH_2)_{16}^-Me
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
           46694 REFERENCES IN FILE CA (1907 TO DATE)
            3453 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
            46755 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               19 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
     ANSWER 11 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
L3
RN
     57-10-3 REGISTRY
     Hexadecanoic acid (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
    Palmitic acid (7CI, 8CI)
OTHER NAMES:
     1-Pentadecanecarboxylic acid
CN
CN
     Cetylic acid
```

CN

CN

CN

CN

Edenor C16 Emersol 143

Kortacid 1698

Hydrofol Acid 1690 Hystrene 9016

FA 1695

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Loxiol EP 278
     Lunac P 95
CN
     Lunac P 95KC
CN
CN
     Lunac P 98
     n-Hexadecanoic acid
CN
CN
     n-Hexadecoic acid
CN
     NAA 160
     Neo-Fat 16
CN
     NSC 5030
CN
     PA 900
CN
CN
     Palmitinic acid
CN
     Pentadecanecarboxylic acid
CN
     Prifac 2960
     Pristerene 4934
CN
FS
     3D CONCORD
DR
     60605-23-4, 66321-94-6, 116860-99-2, 212625-86-0
MF
CI
                  ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS,
LC
     STN Files:
       BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB,
       CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU,
       DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT,
       ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PATDPASPC, PDLCOM*, PIRA,
       PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN,
       USPAT2, USPATFULL, VETU, VTB
         (*File contains numerically searchable property data)
     Other Sources: DSL**, EINECS**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Dissertation; Journal; Patent;
       Preprint; Report
       Roles from patents: ANST (Analytical study); BIOL (Biological study);
RL.P
       FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
       (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
       (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
       study); BIOL (Biological study); MSC (Miscellaneous); OCCU (Occurrence);
       PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
       reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
       study); CMBI (Combinatorial study); FORM (Formation, nonpreparative);
       MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC
       (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses);
       NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
       study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU
       (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
       (Reactant or reagent); USES (Uses)
HO_2C^-(CH_2)_{14}^-Me
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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

39069 REFERENCES IN FILE CA (1907 TO DATE)
1512 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
39123 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> b wpix

FILE 'WPIX' ENTERED AT 09:19:20 ON 11 JUL 2005 COPYRIGHT (C) 2005 THE THOMSON CORPORATION

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FILE LAST UPDATED:
                             7 JUL 2005
                                             <20050707/UP>
MOST RECENT DERWENT UPDATE:
                                 200543
                                               <200543/DW>
 DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE
 >>> FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE,
     PLEASE VISIT:
 http://www.stn-international.de/training_center/patents/stn_guide.pdf <<<
 >>> FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE
    http://thomsonderwent.com/coverage/latestupdates/
                                                                 <<<
 >>> FOR INFORMATION ON ALL DERWENT WORLD PATENTS INDEX USER
    GUIDES, PLEASE VISIT:
    http://thomsonderwent.com/support/userguides/
 >>> NEW! FAST-ALERTING ACCESS TO NEWLY-PUBLISHED PATENT
    DOCUMENTATION NOW AVAILABLE IN DERWENT WORLD PATENTS INDEX
     FIRST VIEW - FILE WPIFV.
    FOR FURTHER DETAILS: http://www.thomsonderwent.com/dwpifv <<<
 >>> THE CPI AND EPI MANUAL CODES HAVE BEEN REVISED FROM UPDATE 200501.
    PLEASE CHECK:
http://thomsonderwent.com/support/dwpiref/reftools/classification/code-revision/
    FOR DETAILS. <<<
=> d all dcn tot 14
     ANSWER 1 OF 1 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN
L4
      2001-138120 [14]
AN
                        WPIX
DNC
    C2001-040662
     New amphiphatic peptide conjugate having detergent properties, and
     hydrophobic and hydrophilic phase, useful e.g. for stabilizing and
     crystallizing proteins and membrane proteins, as cytolytic agents,
      surfactants or emulsifiers.
DC
     B04
     PRIVE, G
 IN
      (UYHE-N) UNIV HEALTH NETWORK
 PΑ
 CYC
                    A2 20010111 (200114)* EN
 ÞΤ
     WO 2001002425
                                               29
                                                       C07K001-00
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            NL OA PT SD SE SL SZ TZ UG ZW
         W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM
            DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
            LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE
            SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
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                                                       C07K001-00
                     A2 20020417 (200233)
                                                       C07K014-00
     EP 1196434
                                           EN
         R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
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 ADT WO 2001002425 A2 WO 2000-CA773 20000629; AU 2000056681 A AU
      2000-56681 20000629; EP 1196434 A2 EP 2000-941846 20000629, WO
      2000-CA773 20000629
    AU 2000056681 A Based on WO 2001002425; EP 1196434 A2 Based on WO
 FDT
      2001002425
 PRAI US 1999-140988P
                           19990629
      ICM C07K001-00; C07K014-00
 IC
      ICS C07K014-705
AB
      WO 200102425 A UPAB: 20010312
     NOVELTY - An amphiphatic peptide conjugate having detergent properties,
     and a hydrophobic and hydrophilic face, is new.
          DETAILED DESCRIPTION - An amphiphatic peptide conjugate having
     detergent properties, and a hydrophobic and hydrophilic face, is new. The
     peptide moiety of the conjugate comprises a first end covalently linked to
      a first aliphatic hydrocarbon moiety, and a second end covalently linked
     to a second aliphatic hydrocarbon moiety. The aliphatic moieties are
```

linked such that they are associated with the peptide moiety of the conjugate.

ACTIVITY - None given.

MECHANISM OF ACTION - None given.

USE - The amphiphatic peptide conjugate may be used for the stabilization and crystallization of proteins and membrane proteins, for modifying the properties of lipid bilayer membranes, as cytolytic agents, as molecules that can facilitate the transport of polar molecules across biological membranes, and as emulsifiers and surfactants.

Dwg.0/3 FS CPI

FA AB; DCN

MC CPI: B04-C01E; B04-N04A; B12-M09 M1 \*01\* DCN: RA3BAW-Q; RA3BAW-N M1 \*02\* DCN: RA01IK-Q; RA01IK-N

=> b home

FILE 'HOME' ENTERED AT 09:19:42 ON 11 JUL 2005

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=> d his

(FILE 'HOME' ENTERED AT 09:17:23 ON 11 JUL 2005)

FILE 'HCAPLUS' ENTERED AT 09:17:45 ON 11 JUL 2005 L1 1 (WO2000-CA00773# OR US99-140988#)/AP,PRN

FILE 'REGISTRY' ENTERED AT 09:18:44 ON 11 JUL 2005

FILE 'HCAPLUS' ENTERED AT 09:18:45 ON 11 JUL 2005 L2 TRA L1 1- RN : 11 TERMS

FILE 'REGISTRY' ENTERED AT 09:18:45 ON 11 JUL 2005 L3 11 SEA L2

FILE 'WPIX' ENTERED AT 09:18:48 ON 11 JUL 2005 L4 1 (WO2000-CA00773# OR US99-140988#)/AP,PRN

FILE 'HCAPLUS' ENTERED AT 09:19:05 ON 11 JUL 2005

FILE 'REGISTRY' ENTERED AT 09:19:13 ON 11 JUL 2005

FILE 'WPIX' ENTERED AT 09:19:20 ON 11 JUL 2005

FILE 'HOME' ENTERED AT 09:19:42 ON 11 JUL 2005

FILE 'STNGUIDE' ENTERED AT 09:19:46 ON 11 JUL 2005

FILE 'REGISTRY' ENTERED AT 09:22:21 ON 11 JUL 2005
L5 QUE AXAEAAEKAAKYAAEAAEKAAKAXA/SQSP
L6 QUE A'ORN'AEAAEKAAKYAAEAAEKAAKA'ORN'A/SQSP
L7 7 L5 | L6
SAV TEM AUD482F0/A L7

FILE 'HCAPLUS' ENTERED AT 09:24:27 ON 11 JUL 2005 L8 2 L7

FILE 'HCAOLD' ENTERED AT 09:24:36 ON 11 JUL 2005 L9 0 L7

FILE 'USPATFULL, USPAT2' ENTERED AT 09:24:41 ON 11 JUL 2005 L10 0 L7

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- \* the IDE default display format and the ED field has been added,

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=> d que sta 17 L7 7 SEA FILE=REGISTRY ABB=ON PLU=ON (AXAEAAEKAAKYAAEAAEKAAKAXA) | ( A'ORN'AEAAEKAAKYAAEAAEKAAKA'ORN'A) / SQSP

=> b hcap FILE 'HCAPLUS' ENTERED AT 09:25:32 ON 11 JUL 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

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=> d all hitseq 18 tot

- L8 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2005 ACS on STN
- AN 2003:75113 HCAPLUS
- DN 139:32213
- ED Entered STN: 31 Jan 2003
- TI Lipopeptide detergents designed for the structural study of membrane proteins
- AU McGregor, Clare-Louise; Chen, Lu; Pomroy, Neil C.; Hwang, Peter; Go, Sandy; Chakrabartty, Avijit; Prive, Gilbert G.
- CS Department of Medical Biophysics, University of Toronto, Toronto, ON, M5G 2M9, Can.
- SO Nature Biotechnology (2003), 21(2), 171-176 CODEN: NABIF9; ISSN: 1087-0156
- PB Nature Publishing Group
- DT Journal
- LA English
- CC 6-3 (General Biochemistry)
- AB The structural study of membrane proteins requires detergents that can effectively mimic lipid bilayers, and the choice of detergent is often a compromise between detergents that promote protein stability and detergents that form small micelles. We describe lipopeptide detergents (LPDs), a new class of amphiphile consisting of a peptide scaffold that supports two alkyl chains, one anchored to each end of an  $\alpha$ -helix.

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The goal was to design a mol. that could self-assemble into a cylindrical
     micelle with a rigid outer hydrophilic shell surrounding an inner lipidic
     core. Consistent with this design, LPDs self-assemble into small
     micelles, can disperse phospholipid membranes, and are gentle,
     nondenaturing detergents that preserve the structure of the membrane
     proteins in solution for extended periods of time. The LPD design allows for
     a membrane-like packing of the alkyl chains in the core of the mol.
    assemblies, possibly explaining their superior properties relative to traditional detergents in stabilizing membrane protein structures.
     lipopeptide detergent micelle membrane protein
     Transport proteins
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (lactose transporter; micelle-forming lipopeptide detergents permit
        structural study of membrane proteins)
     Enzymes, biological studies
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (membrane-associated, PagP; micelle-forming lipopeptide detergents permit
        structural study of membrane proteins)
     Proteins
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (membrane; micelle-forming lipopeptide detergents permit structural
        study of membrane proteins)
     Detergents
     Micelles
        (micelle-forming lipopeptide detergents permit structural study of
        membrane proteins)
     Bacteriorhodopsins
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (micelle-forming lipopeptide detergents permit structural study of
        membrane proteins)
     Lipopeptides
     RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological
     study); USES (Uses)
        (micelle-forming lipopeptide detergents permit structural study of
        membrane proteins)
     540765-20-6 540765-21-7 540765-22-8
     540765-23-9 540765-24-0
     RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological
     study); USES (Uses)
        (micelle-forming lipopeptide detergents permit structural study of
        membrane proteins)
              THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD
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- 540765-20-6 540765-21-7 540765-22-8

540765-23-9 540765-24-0

RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(micelle-forming lipopeptide detergents permit structural study of membrane proteins)

540765-20-6 HCAPLUS RN

L-Alaninamide, N-acetyl-L-alanyl-N5-(1-oxododecyl)-L-ornithyl-L-alanyl-L- $\alpha \hbox{-glutamyl-$L$-alanyl-$L$-al$  $a \\ lany \\ l-L-ly \\ syl-L-tyrosyl-L-a \\ lany \\ l-L-a \\ lany \\ l-L-\alpha-g \\ lutamyl-L-a \\ lany \\ l-L-a \\$ alanyl-L-a-glutamyl-L-lysyl-L-alanyl-L-alanyl-L-lysyl-L-alanyl-N5-(1oxododecyl)-L-ornithyl- (9CI) (CA INDEX NAME)

modified NTE

1 АХАЕААЕКАА КУААЕААЕКА АКАХА SEO

Absolute stereochemistry.

PAGE 1-A

NH<sub>2</sub>

# PAGE 1-B

# PAGE 1-C

PAGE 2-D

$$-(CH2)3$$

$$N$$

$$(CH2)10 Me$$

$$S$$

$$Me$$

RN 540765-21-7 HCAPLUS

CN L-Alaninamide, N-acetyl-L-alanyl-N5-(1-oxotetradecyl)-L-ornithyl-L-alanyl-L- $\alpha$ -glutamyl-L-alanyl-N5-(1-oxotetradecyl)-L-ornithyl- (9CI) (CA INDEX NAME)

NTE modified

SEQ 1 AXAEAAEKAA KYAAEAAEKA AKAXA

Absolute stereochemistry.

PAGE 1-A

H<sub>2</sub>N

H<sub>2</sub>N

$$(CH_2)_{12}$$
 $(CH_2)_{3}$ 
 $(CH_2)_{4}$ 
 $(CH_2)_{4}$ 
 $(CH_2)_{4}$ 
 $(CH_2)_{4}$ 
 $(CH_2)_{4}$ 
 $(CH_2)_{4}$ 
 $(CH_2)_{4}$ 

Search done by Noble Jarrell

### PAGE 1-B

# PAGE 1-C

PAGE 2-D

RN 540765-22-8 HCAPLUS

CN L-Alaninamide, N-acetyl-L-alanyl-N5-(1-oxohexadecyl)-L-ornithyl-L-alanyl-L-  $\alpha$ -glutamyl-L-alanyl-L- $\alpha$ -glutamyl-L-alanyl-L-lysyl-L-alanyl-L- alanyl-L-alanyl-N5-(1-oxohexadecyl)-L-ornithyl- (9CI) (CA INDEX NAME)

NTE modified

SEQ 1 AXAEAAEKAA KYAAEAAEKA AKAXA

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

# PAGE 1-C

PAGE 2-D

RN 540765-23-9 HCAPLUS

CN L-Alaninamide, N-acetyl-L-alanyl-N5-(1-oxooctadecyl)-L-ornithyl-L-alanyl-L-α-glutamyl-L-alanyl-L-α-glutamyl-L-alanyl-N5-(1-oxooctadecyl)-L-ornithyl- (9CI) (CA INDEX NAME)

NTE modified

SEQ 1 AXAEAAEKAA KYAAEAAEKA AKAXA

Absolute stereochemistry.

Me (CH<sub>2</sub>) 
$$_{16}$$
 (CH<sub>2</sub>)  $_{3}$  S  $_{H}$  Me (CH<sub>2</sub>)  $_{4}$  S  $_{H}$ 

PAGE 1-B

PAGE 1-C

#### PAGE 2-D

RN 540765-24-0 HCAPLUS
CN L-Alaninamide, N-acetyl-L-alanyl-N5-(1-oxoeicosyl)-L-ornithyl-L-alanyl-L-α-glutamyl-L-alanyl-N5-(1-oxoeicosyl)-L-ornithyl- (9CI) (CA INDEX NAME)

NTE modified

SEQ 1 AXAEAAEKAA KYAAEAAEKA AKAXA

Absolute stereochemistry.

Me 
$$(CH_2)_{18}$$
  $(CH_2)_{3}$   $(CH_2)_{4}$   $(CH_2)_{4}$   $(CH_2)_{4}$   $(CH_2)_{4}$   $(CH_2)_{4}$   $(CH_2)_{4}$   $(CH_2)_{4}$ 

Search done by Noble Jarrell

### PAGE 1-B

### PAGE 1-C

PAGE 2-D

ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2005 ACS on STN

AN2001:31526 HCAPLUS

DN 134:102558

ED Entered STN: 12 Jan 2001

Peptide conjugate-based lipopeptide detergents for the stabilization of TI membrane proteins and interactions with biological membranes

IN Prive, Gil

PA University Health Network, Can.

PCT Int. Appl., 29 pp. SO

CODEN: PIXXD2

DTPatent

LΑ English

IC ICM C07K001-00

CC 46-3 (Surface Active Agents and Detergents)

Section cross-reference(s): 6, 9

FAN.	CNT	1																
	PATENT NO.			KIN	D	DATE			APPL	ICAT	ION I	NO.		D	ATE			
ΡI				A2		2001	0111	WO 2000-CA773						20000629				
				A3		20010712												
		W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
			CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,
			HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,

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LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
            SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
            YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
            DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
    CA 2376650
                         AA
                               20010111
                                           CA 2000-2376650
                                                                   20000629
                               20020417
                                          EP 2000-941846
                                                                   20000629
    EP 1196434
                         A2
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO
PRAI US 1999-140988P
                         Р
                               19990629
    WO 2000-CA773
                         W
                               20000629
CLASS
PATENT NO.
                CLASS PATENT FAMILY CLASSIFICATION CODES
 _____
                ____
WO 2001002425 ICM
                       C07K001-00
               ECLA
                      C07K014/00B; C07K014/705
WO 2001002425
    The present invention provides a novel class of detergents referred to
    herein as lipopeptide detergents. Lipopeptide detergents comprise an
    amphipathic \alpha-helical peptide having a hydrophobic or neutral face
    and a hydrophilic face. To each end of this peptide is covalently linked
    an aliphatic hydrocarbon tail, these aliphatic tails being linked thereto such
    that they associate with the hydrophobic or neutral face of the peptide.
    Lipopeptide detergents can advantageously be used to stabilize membrane
    proteins in the absence of a phospholipid bilayer in a manner that
    preserves the native conformation and permits the subsequent crystallization
    lipopeptide detergent peptide conjugate membrane protein biomembrane;
ST
    aliph hydrocarbon peptide conjugate lipopeptide detergent
    Peptides, uses
IT
    RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PRP
     (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP
     (Preparation); USES (Uses)
        (N-Ac; peptide conjugate-based lipopeptide detergents for stabilization
       of membrane proteins and interactions with biol. membranes)
IT
    Peptides, uses
    RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PRP
     (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP
     (Preparation); USES (Uses)
        (amides; peptide conjugate-based lipopeptide detergents for
        stabilization of membrane proteins and interactions with biol.
       membranes)
IT
    Membrane, biological
        (bilayer; peptide conjugate-based lipopeptide detergents for
        stabilization of membrane proteins and interactions with biol.
       membranes)
    Hydrocarbons, uses
IT
    RL: NUU (Other use, unclassified); PRP (Properties); SPN (Synthetic
    preparation); PREP (Preparation); USES (Uses)
        (conjugated, with peptides; peptide conjugate-based lipopeptide
        detergents for stabilization of membrane proteins and interactions with
       biol. membranes)
IT
    Fatty acids, uses
    RL: NUU (Other use, unclassified); PRP (Properties); SPN (Synthetic
    preparation); PREP (Preparation); USES (Uses)
        (conjugates, with peptides; peptide conjugate-based lipopeptide
        detergents for stabilization of membrane proteins and interactions with
       biol. membranes)
IT
    Peptides, uses
    RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PRP
     (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP
     (Preparation); USES (Uses)
        (conjugates; peptide conjugate-based lipopeptide detergents for
        stabilization of membrane proteins and interactions with biol.
       membranes)
     Polymer chains
```

```
(length, of aliphatic hydrocarbon; peptide conjugate-based lipopeptide
         detergents for stabilization of membrane proteins and interactions with
         biol. membranes)
 IT
      Proteins, specific or class
      RL: PEP (Physical, engineering or chemical process); PRP (Properties);
      PROC (Process)
         (membrane; peptide conjugate-based lipopeptide detergents for
         stabilization of membrane proteins and interactions with biol.
 TΤ
      Detergents
      α-Helix
         (peptide conjugate-based lipopeptide detergents for stabilization of
         membrane proteins and interactions with biol. membranes)
 IT
      Lipopeptides
      RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PRP
      (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP
      (Preparation); USES (Uses)
         (peptide conjugate-based lipopeptide detergents for stabilization of
         membrane proteins and interactions with biol. membranes)
      Phosphatidylcholines, processes
TT
      Phospholipids, processes
      RL: PEP (Physical, engineering or chemical process); PROC (Process)
         (peptide conjugate-based lipopeptide detergents for stabilization of
         membrane proteins and interactions with biol. membranes)
 TТ
      Bacteriorhodopsins
      RL: PEP (Physical, engineering or chemical process); PRP (Properties);
      PROC (Process)
         (peptide conjugate-based lipopeptide detergents for stabilization of
         membrane proteins and interactions with biol. membranes)
 IT
      Crystal growth
         (use of lipopeptide detergents for membrane protein crystallization; peptide
         conjugate-based lipopeptide detergents for stabilization of membrane
         proteins and interactions with biol. membranes)
 TΤ
      318957-85-6D, conjugates with aliphatic hydrocarbons
      RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PRP
      (Properties); BIOL (Biological study); USES (Uses)
         (peptide conjugate-based lipopeptide detergents for stabilization of
         membrane proteins and interactions with biol. membranes)
                                                              57-11-4DP,
      57-10-3DP, Hexadecanoic acid, peptide conjugates, uses
 TΤ
      Octadecanoic acid, peptide conjugates, uses
                                                   112-85-6DP, Docosanoic acid,
      peptide conjugates 143-07-7DP, Dodecanoic acid, peptide conjugates, uses
      334-48-5DP, Decanoic acid, peptide conjugates 506-30-9DP, Eicosanoic
      acid, peptide conjugates
                                 506-48-9DP, Octacosanoic acid, peptide
                  544-63-8DP, Tetradecanoic acid, peptide conjugates, uses
      557-59-5DP, Tetracosanoic acid, peptide conjugates 318957-87-8DP
       conjugates with fatty acids
      RL: NUU (Other use, unclassified); PRP (Properties); SPN (Synthetic
      preparation); PREP (Preparation); USES (Uses)
         (peptide conjugate-based lipopeptide detergents for stabilization of
         membrane proteins and interactions with biol. membranes)
 TТ
      318957-85-6D, conjugates with aliphatic hydrocarbons
      RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PRP
      (Properties); BIOL (Biological study); USES (Uses)
         (peptide conjugate-based lipopeptide detergents for stabilization of
         membrane proteins and interactions with biol. membranes)
 RN
      318957-85-6 HCAPLUS
      L-Alanine, L-alanyl-L-ornithyl-L-alanyl-L-\alpha-glutamyl-L-alanyl-L-
 CN
      alanyl-L-alanyl-L-lysyl-L-alanyl-L-lysyl-L-tyrosyl-L-
      alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-a-glutamyl-L-a
      lysyl-L-alanyl-L-alanyl-L-lysyl-L-alanyl-L-ornithyl- (9CI) (CA INDEX
      NAME)
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Absolute stereochemistry.

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# PAGE 1-A

$$H_{2N}$$
 $M_{e}$ 
 $H_{2N}$ 
 $H_$ 

# PAGE 1-B

PAGE 1-C

NTE modified

### SEQ 1 AXAEAAEKAA KYAAEAAEKA AKAXA

Absolute stereochemistry.

### PAGE 1-B

PAGE 1-C

PAGE 1-D

=> b home FILE 'HOME' ENTERED AT 09:26:25 ON 11 JUL 2005

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